Press release

eno energy installs second 114 wind turbine and introduces advanced technology into the 3 MW class

(Rostock/ Berlin, 21 March 2014) – In just a few years, eno energy has built up an impressive product portfolio. Quality has always been the most important guiding principle here, and this is reflected in the high technical availability of eno wind turbines compared to others on the market. Following on from the installation of the prototype of the eno 114 in Brusow, close to the Baltic Sea, a second eno 114 has now been erected on the North Sea coast. With this new wind turbine, high-performance engineering technology has been introduced into the 3 MW class. This 3.5 MW wind turbine is currently the most powerful onshore turbine in its class, thanks to a range of innovative detailed solutions and to components developed by the company.

This variable-speed, pitch-controlled wind turbine is a newly developed system with a rotor diameter of 114.9 m and a hub height of 92 m. Alternatively, hub heights of 128 and 142 m are also available. This wind turbine is particularly suitable for windy locations close to the coast. Thanks to its high turbulence resistance, the eno 114 is ideal for locations with increased local turbulence – and also for repowering projects, building projects on gap sites and a compact wind farm layout.

This is made possible by the rotor blades, which have been newly developed by eno and are optimally adapted for wind farm operation, and the turbulence-resistant design of the support structure and drive train components. These elements allow for low separation distances between wind turbines and reduce losses associated with the switch-off of turbines. Overall, an above-average financial return can be achieved by using eno 114 wind turbines in wind farms.

The location of Brusow in Mecklenburg-Western Pomerania offers excellent conditions for the comprehensive test procedures that were begun immediately after commissioning of the turbine. “As the available wind is sufficiently strong and no other wind turbines are present in the vicinity, free incident flow to the turbine is possible,” explained project manager Christin Plepla. Things will become even more interesting when the second prototype turbine will be installed in early 2014. “In Brusow, we have the opportunity to erect two wind turbines at one site and to carry out more detailed measurements than usual,” she added.

The second 114 wind turbine can now demonstrate its strengths at a site in East Frisia close to the North Sea in heterogeneous surroundings with around a dozen turbines from various manufacturers. As part of a repowering project, this turbine will replace an existing unit at a hub height of 92 metres and is now the most powerful turbine in an existing wind farm that is characterised by strong turbulence.

Stefan Bockholt, head of engineering at the Rostock-based company, emphasises the company’s demanding philosophy: “The full range of our expertise has gone into the

development of the eno 114. We aim to set high standards with regard to reliability, durability and efficiency by bringing together various engineering innovations.” For example, the turbine features a four-point bearing for the rotor and hydraulic gearbox suspension. The multi-phase design of the motor is unique too, as it provides for sixfold redundancy in the electrical system. In addition, the eno 114 is equipped with redundant lubrication, cooling and converter systems that ensure full operability of the turbine even if individual subsystems should fail.

In total, orders for around twenty eno 114 turbines have already been received for 2014. As in 2013, eno energy will again be present at the Hannover Messe trade fair in April this year and can be visited at stand M 25 in hall 27.

About eno energy

The eno energy Group, which manufactures wind turbines and is headquartered in Rostock and Rerik, produces wind turbines for the onshore sector with rated outputs of 2.05 to 3.5 megawatts and rotor diameters between 82 an 126 metres. The wind turbines developed by the eno Group meet the highest quality standards. The design of the turbines and individual assemblies is aimed at achieving high availability, durability and high yields in wind farm networks. The corporate group is positioned in national and international markets as both a turbine manufacturer and service provider. Its considerable flexibility and reliability makes eno energy a competent partner for investors and project developers in Germany and abroad.

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